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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/930,173	08/16/2001	Esa Oksanen	50074-045	1147

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06/06/2003

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EXAMINER

GUARRIELLO, JOHN J

ART UNIT	PAPER NUMBER
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1771

DATE MAILED: 06/06/2003

7

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/930173

Applicant(s)

OK sanen et al.

Examiner

John Guarriello

Group Art Unit

1771

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☐ Responsive to communication(s) filed on _____
- ☐ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 1-6 is/are pending in the application.
Of the above claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 1-3 is/are rejected.
- ☒ Claim(s) 4-6 is/are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
 - ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
 - ☐ received in Application No. (Series Code/Serial Number) _____
 - ☐ received in this national stage application from the International Bureau (PCT Rule 1 7.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 5
- ☒ Notice of Reference(s) Cited, PTO-892
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Interview Summary, PTO-413
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Other _____

Office Action Summary

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DETAILED ACTION

Claim Objections

15. Claims 4-6 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only and/or cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim Rejections - 35 USC § 103

16. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

17. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Simpson 4,726,978.

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Simpson describes a layer of non-woven or open woven or open knitted charcoal cloth, which corresponds to the claimed filter cloth, (see abstract).

Simpson describes a multilayer composite which can be used for filter materials, (see abstract). Simpson describes the cloth is arranged between two layers of textile materials which correspond to the claimed middle layer and outer protective layers of the claimed invention, (column 4, lines 40-43).

Simpson describes the composite material can be made of inner and outer layers of textile material which may be the same or different depending on what properties are required, (column 4, lines 6-15). Simpson differs from the claimed invention because it is silent about the outer layers are necessarily denser than the middle layer, the wear resistance, and the woven structure of the middle layer.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the layers of Simpson regarding the density motivated with the expectation that since Simpson describes the layers of the textile material may fit the use of the article dependent upon the properties so

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desired, (column 4, lines 6-9). Optimizing the density of the layers would be within one of ordinary skill in the art and obvious.

It still would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the fibers or threads and middle layer as woven motivated with the expectation that since Simpson describes open woven this would imply woven materials could be used. Regarding wear resistance Simpson describes nylon filaments which exhibit strength (which corresponds to wear resistance), (column 4, lines 55-66).

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pike et al. 6,169,045 describes filter medium for fluid borne particles, (see abstract, whole document)..

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John J. Guarriello whose telephone

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number is 703-308-3209. The examiner can normally be reached on Monday to Friday from 8 am to 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris, can be reached on (703) 308-2414. The fax phone number for the organization where this application or proceeding is assigned is 703-305-5408.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.



John J. Guarriello:gj

Patent Examiner

April 28, 2003

May 30, 2003



TERREL MORRIS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700